TEJUS
CONSULTANTS

Test Report on Cement

oject	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
ient	Bruhat Bangalore Mahanagar Palike
nsultant	TEJUS CONSULTANTS
ntractor	M/s N LOKANATH REDDY
ample ID	Cement
ate of ample ested	14-10-2019
ample upplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	45	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	271	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	4.00	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	29.00%	25 % to 35

Note:
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3. Any Query regarding the report must be reported reported within 15days from the date of testing.

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Authorised Signatory

Assistant Executive Engineer,
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TEJUS
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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s N LOKANATH REDDY

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Location/Source	At Site/Plant	Date of Sampling	14-10-2019
Period of Soaking	24 hours	Date of Testing	14-10-2019

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	658	673	676	
B	Weight of oven - dry sample gm.	650	662	672	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1685	1698	1702	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.621	2.648	2.699	**2.656**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.231	1.662	0.595	**1.163**

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Bangalore.

TEJUS
CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Consultants	Tejus Consultants, Bangalore
Contractor	M/s N LOKANATH REDDY

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Sample Location	At Site/Plant	Date of Sampling	14-10-2019
		Date of Testing	14-10-2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	242	242	8.07	91.93	90 - 100
2.36 mm	326	568	18.93	81.07	75 - 100
1.18 mm	417	985	32.83	67.17	55 - 90
0.600 mm	486	1471	49.03	50.97	35 -59
0.300 mm	716	2187	72.90	27.10	8-30
0.150 mm	623	2810	93.67	6.33	0 - 10
Pan	190	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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Bangalore.

TEJUS
CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura.				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	M/s N LOKANATH REDDY				
Total Weight:	10000	gms			

SIEVE ANALYSIS

Type of Material	20 mm down size		Proposed Use	Concrete	
Sample Location	Plant/At site		Date of Sampling	14-10-2019	
			Date of Testing	14-10-2019	
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	276	276	2.76	97.24	95 - 100
10.00 mm	4849	5125	51.25	48.75	25 - 55
4.75 mm	4237	9362	93.62	6.38	0 - 10
Pan	638	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura.
Consultants	TEJUS CONSULTANTS
Contractor	M/s N LOKANATH REDDY
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size	Proposed Use	Concrete
Sample Location	At Site/Plant	Date of Sampling	14-10-2019
		Date of Testing	14-10-2019

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	552	552	5.52	94.48	90-100
10.0	4516	5068	50.68	49.32	40-85
4.75	4543	9611	96.11	3.89	0-10
Pan	389	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEJUS
CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s N LOKANATH REDDY
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	14-10-2019	21-10-2019	7 days	8.300	22500	440	19.56	19.56
2	14-10-2019	21-10-2019	7 days	8.320	22500	439	19.51	
3	14-10-2019	21-10-2019	7 days	8.325	22500	441	19.60	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s N LOKANATH REDDY
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	14-10-2019	11-11-2019	28 days	8.132	22500	684	30.40	30.36
2	14-10-2019	11-11-2019	28 days	8.140	22500	683	30.36	
3	14-10-2019	11-11-2019	28 days	8.142	22500	682	30.31	

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Test Report on Cement

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s N LOKANATH REDDY
Sample ID	Cement
Date of Sample Tested	17-10-2019
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	37	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	270	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	4.00	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	29.00%	25 % to 35

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s N LOKANATH REDDY

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Location/Source	At Site/Plant	Date of Sampling	17-10-2019
Period of Soaking	24 hours	Date of Testing	17-10-2019

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	662	671	676	
B	Weight of oven - dry sample gm.	650	665	671	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1685	1698	1702	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.579	2.681	2.695	2.652
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.846	0.902	0.745	1.165

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Consultants	Tejus Consultants, Bangalore
Contractor	M/s N LOKANATH REDDY

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Sample Location	At Site/Plant	Date of Sampling	17-10-2019
		Date of Testing	17-10-2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	245	245	8.17	91.83	90 - 100
2.36 mm	330	575	19.17	80.83	75 - 100
1.18 mm	420	995	33.17	66.83	55 - 90
0.600 mm	490	1485	49.50	50.50	35 -59
0.300 mm	720	2205	73.50	26.50	8-30
0.150 mm	625	2830	94.33	5.67	0 - 10
Pan	170	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura.	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	M/s N LOKANATH REDDY	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	20 mm down size	Proposed Use	Concrete	
Sample Location	Plant/At site	Date of Sampling	17-10-2019	
		Date of Testing	17-10-2019	

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	285	285	2.85	97.15	95 - 100
10.00 mm	4856	5141	51.41	48.59	25 - 55
4.75 mm	4231	9372	93.72	6.28	0 - 10
Pan	628	10000			

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura.	
Consultants	TEJUS CONSULTANTS	
Contractor	M/s N LOKANATH REDDY	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size	Proposed Use	Concrete	
Sample Location	At Site/Plant	Date of Sampling	17-10-2019	
		Date of Testing	17-10-2019	

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	547	547	5.47	94.53	90-100
10.0	4518	5065	50.65	49.35	40-85
4.75	4545	9610	96.10	3.90	0-10
Pan	390	10000			

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s N LOKANATH REDDY
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	17-10-2019	24-10-2019	7 days	8.300	22500	442	19.64	19.60
2	17-10-2019	24-10-2019	7 days	8.320	22500	441	19.60	
3	17-10-2019	24-10-2019	7 days	8.325	22500	440	19.56	

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Submitted. N.D
AE(NT)

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Bangalore.

TEJUS
CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s N LOKANATH REDDY
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	17-10-2019	14-11-2019	28 days	8.132	22500	683	30.36	30.31
2	17-10-2019	14-11-2019	28 days	8.140	22500	682	30.31	
3	17-10-2019	14-11-2019	28 days	8.142	22500	681	30.27	

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NABL ACCREDITED AS PER ISO/IEC 17025:2017

Job No.: CECTC/LNR/QC/ 2019-20

Date: 21.10.2019

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Bruhath Bangalore Mahanagara Palike**
Agency : **Sri. N Lokanath Reddy,** Contractor, Bangalore.
Name of Work : Construction of RCC Retaining Wall near Water Tank (Behind Govt.School) in Sanjeevinninagara in Ward No.07.Byatarayanapura.

Location : 3rd Lift
Sample Identification : 10mm, 12mm, 20mm & 25mm Fe 500 TMT Bars
Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test: : 21.10.2019

Sl.No	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
			0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	10	0.617	533	576	17
2	12	0.889	541	584	18
3	20	2.465	558	597	19
4	25	3.858	562	611	20

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For Civil Experts

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